



NATIONAL PHOTOGRAPHIC  
INTERPRETATION CENTER

**BASIC IMAGERY  
INTERPRETATION  
REPORT**

**OMSK AIRCRAFT ENGINE PLANT BARANOVA 29**

**STRATEGIC WEAPONS INDUSTRIAL FACILITIES**

**USSR**

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DECLASS REVIEW by NIMA/DOD

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**RCA-09/0020/71**  
**COPY NO 160**  
**8 PAGES**



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INSTALLATION OR ACTIVITY NAME

COUNTRY

Omsk Aircraft Engine Plant Baranova 29

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UTM COORDINATES

GEOGRAPHIC COORDINATES

NA

54-57-40N 073-25-04E

MAP REFERENCE

SAC. USATC, Series 200, Sheet 0163-10, scale 1:200,000

LATEST IMAGERY USED

NEGATION DATE (if required)

NA

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## ABSTRACT

1. Omsk Aircraft Engine Plant Baranova 29 is actively engaged in the production of helicopter engines and may also be involved in the production of missile propulsion systems. Plant 29 consists of 117 completed buildings and structures, 10 of which are considered to be major production-associated buildings. The total floorspace of Plant 29 is about 318,743 square meters (3,430,834 square feet).

2. [ ] a plant expansion program was observed under way outside the northeast corner of the plant. This expansion includes a large probable assembly building and four probable utility buildings.

3. This report includes a description and chronological study of Plant 29, a discussion of status and production activity, and a discussion of related installations. Supporting graphics include a location map, a photograph, and a line drawing. A table of mensural data keyed to the line drawing is also included.

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## INTRODUCTION

4. Plant 29 is located on the eastern edge of Omsk, USSR (Figure 1). The plant was first observed on photography of [ ]. At that time the plant consisted of approximately 50 buildings and structures, including two large assembly buildings, a large engine test building, two forge/foundries, two heating plants, and eight shop buildings. The remaining buildings and structures included administration/engineering buildings, small shop buildings, warehouses, and utility buildings.

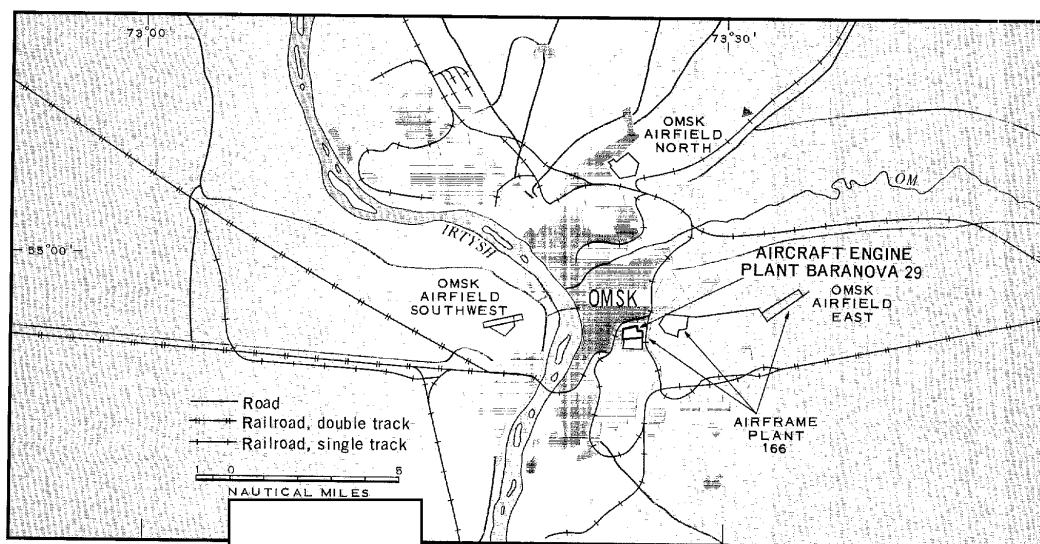
5. Two large assembly buildings, a large shop building, a transshipment building, and a large administration building have been added to the major facilities since [ ].

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Additional utility buildings have also been constructed since [ ]

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FIGURE 1. LOCATION MAP

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6. A plant expansion program, first observed in [ ] indicates a new and/or expanded production role for Plant 29. As of [ ] Plant 29 contained approximately [ ] of floorspace with at least [ ] under construction. The plant covers an area of approximately 246.6 acres.

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### Related Installations

7. Omsk Airframe Plant 166 [ ] is located adjacent to the south side of Plant 29 (Figure 2). However, there is no other photographic evidence to suggest that the two plants are related.

8. Omsk Rocket Engine Test Facility Gornaya Bitiya [ ] is located approximately 51.9 kilometers (28.0 nautical miles) north-northwest of Plant 29. In [ ] a helicopter rotor test stand was identified at the Rocket Engine Test Facility, providing the first photographic evidence in the Soviet Union of an association between an aircraft engine plant and a rocket engine test facility.

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### BASIC DESCRIPTION

9. Plant 29 consists of 117 buildings and structures (Figure 3). The major production buildings of Plant 29 are the engine test building, four large assembly/shop buildings, five large shop buildings, a large forge/foundry, and a heating plant. An additional 15 buildings can be considered as significant, production-related buildings: five shop buildings, four large administration buildings, three large warehouses, a transshipment building, a forge/foundry, and another smaller heating plant. The remaining 90 buildings and structures include administration buildings, shop buildings, warehouses, a fire station, and utility buildings.

10. A plant expansion program first seen under way in [ ] presently includes large assembly-type building and four smaller buildings under construction outside the northeast corner of the plant. This construction indicates a new and/or expanded production role for Plant 29.

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### Construction Chronology

11. Omsk Aircraft Engine Plant Baranova 29 was first seen on photography [ ] [ ] Two large assembly/shop buildings (items 30 and 31), an engine test building (item 32), two forge/foundries (items 46 and 47), eight shop buildings (items 16,24,26,27,39,42,44, and 45), two heating plants (items 18 and 50), and three large warehouses (items 25,33, and 34) were the major plant facilities present at that time. Five administration buildings (items 14,28,38,41, and 53), a small shop building (item 48), four small warehouses (items 2,4,36, and 37), and a fire station (item 15) were also identified. Additional facilities included a POL storage area, four small warehouses, and 11 utility buildings.

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12. The next usable photographic coverage of Plant 29 was obtained in [ ] [ ] A large, rail-served transshipment building (item 20) had been constructed in the north-central plant area. Two large assembly/shop buildings (item 3 and 19), in the midstage of construction, were also observed in the north-central plant area. A large addition was seen under construction on a shop building (item 44) in the southwest corner of the plant. A small addition was also seen under construction on the large shop building (item 30) in the west-central plant area. One of the original shop buildings (item 24) had been enlarged and refurbished since [ ]

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Table 1. Structures at Onuk Aircraft Engine Plant Baranovs 29  
(Item numbers keyed to Figure 3)

Item	Description	Dimensions* meters feet			Floorspace sq. meters sq. feet	Date First Seen**	Remarks	Item	Description	Dimensions* meters feet			Floorspace sq. meters sq. feet	Date First Seen**	Remarks
		L	W	H						L	W	H			
1	Admin bldg						Completed by [ ]	29	Admin bldg						Completed by [ ]
2	Warehouse							30	Assem/shop bldg						Small section added between [ ]
3	Assem/shop bldg						First section completed [ ] large section started [ ] & completed small addition upon [ ]	31	Assem/shop bldg						Roof refurbished between [ ]
4	Warehouse						Enlarged between [ ]	32	Engine test bldg						Contains 14 U-type & 3 L-type engine test cells
5	Shop bldg							33	Warehouse						
6	Unid bldg ucon							34	Warehouse						
7	Unid bldg ucon							35	Shop bldg						Completed [ ] contains 2-story admin section
8	Unid bldg ucon							36	Warehouse						
9	Unid bldg ucon							37	Warehouse						
10	Heating plant						Enlarged between [ ]	38	Admin bldg						2-story bldg
11	Prob assem bldg ucon							39	Shop bldg						High-bay center section; admin section on each end
12	Prob admin bldg ucon							40	Vehicle storage bldg						Complete by [ ]
13	Prob admin bldg ucon							41	Admin bldg						Enlarged between [ ]
14	Admin bldg						Single-story bldg	42	Shop bldg						
15	Fire station							43	Admin bldg						Completed by [ ]
16	Shop bldg						4-story admin section on west end	44	Shop bldg						Enlarged between [ ] & again [ ]
17	Shop bldg						Served by adjacent spray pond	45	Shop bldg						Small addition built between [ ]
18	Heating plant							46	Forge/foundry						
19	Assem/shop bldg						Completed by [ ] 2-story admin section on south side	47	Forge/foundry						
20	Transshipment bldg						Section added by [ ] [ ] rail-served	48	Shop bldg						Served by adjacent spray pond
21	Admin bldg						3-story bldg; completed by [ ]	49	Shop bldg						Served by POI storage tanks south of heating plant
22	Shop bldg						Completed by [ ]	50	Heating plant						
23	Warehouse							51	Warehouse						
24	Shop bldg						Enlarged & refurbished between [ ]	52	Shop bldg						
25	Warehouse						Roof refurbished between [ ]	53	Admin bldg						
26	Shop bldg						Roof refurbished between [ ]		Total Floorspace of Numbered Structures						
27	Shop bldg						Enlarged & refurbished between [ ]		Total Floorspace of Unnumbered Structures						
28	Admin bldg						Section added between [ ]		TOTAL Floorspace of Plant						

\*Dimensions are accurate to within [ ] with a 95% confidence level.  
\*\*Complete when first observed unless otherwise noted.

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13. The two assembly/shop buildings (items 3 and 19) and the two building additions seen under construction in [ ] were completed by [ ] Twenty-three buildings, including three shop buildings (items 22, 49, and 51), two warehouses, two pumphouses, and 16 utility buildings, were first seen in June. A second POL storage area, two POL storage tanks, and two cooling ponds were also identified.

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14. A shop building (item 22) seen under construction in [ ] was complete by [ ] A small heating plant (item 10), a warehouse (item 23), and a small shop (item 17) were identified in [ ] Twelve utility buildings, two POL tanks, a pumphouse, and a spray pond were also seen for the first time.

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15. Construction activity at Plant 29 was very limited between [ ] and [ ] An administration building (item 1) and a shop building (item 35) were seen under construction in [ ] One of the original shop buildings (item 27) was enlarged and refurbished between [ ] An administration building (item 28) was also enlarged. The shop building (item 35) first seen under construction in [ ] was completed by [ ] A vehicle storage building (item 40) was observed under construction in [ ]

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16. The administration building (item 1) first seen under construction in [ ] and the vehicle storage building (item 40) first seen under construction in [ ] had been completed by [ ] A warehouse (item 25), one of the original buildings, was reroofed between [ ] A new administration building (item 29) and a utility building were constructed between [ ] The roof on one of the original shop buildings (item 26) was refurbished between [ ] and [ ] A large addition to the east end of the large assembly/shop building (item 3) was first seen under construction in [ ] A small administration building and two utility buildings were seen under construction in [ ]

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17. A large warehouse addition to the east end of the transshipment building (item 20) was complete in [ ] The utility building seen under construction in [ ] had also been completed by [ ] Other construction changes observed in [ ] included enlargement of two buildings, the heating plant (item 10) and a utility building, and identification of a utility building. A large excavation, probably for a building foundation, was observed in the southwest plant area west of a large shop building (item 44).

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18. Construction activity at Plant 29 was extremely limited between [ ] and [ ] Two construction changes were observed during this period: the heating plant (item 10) expansion was completed by [ ] and a utility building was seen under construction in [ ] In [ ] ground scarring was identified outside the northeast corner of the plant area, indicating the start of a plant expansion program.

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19. Footings for a large, probable assembly building (item 11) were identified in the expansion area in [ ] Other construction activity between [ ] and [ ] was very limited. An administration building (item 43) under construction since [ ] and a utility building under construction since [ ] had been completed by [ ] The addition to the large assembly/shop building (item 3) had also been completed. A new administration building (item 21) was seen in a very early stage of construction. Initial construction for a probable building (item 9) in the expansion area was identified in [ ] No additional construction changes were observed until [ ] and [ ]

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20. [ ], three probable utility buildings (items 6, 7, and 8) were seen in the early stage of construction on the north side of the large, probable assembly building (item 11) in the area of plant expansion. The unidentified structure seen under construction near building 44 in [ ] had been completed and earth covered/backfilled by [ ]

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21. A small addition to the west end of the large assembly/shop building (item 3) was observed under construction in [ ] The administration building (item 21) seen under construction in [ ] was observed complete. A new section was also identified on the shop building (item 5) north of the heating plant in the northeast corner of the plant. Two probable administration buildings (items 12 and 13) were observed in the early stages of construction in the northwest corner of the plant in [ ]

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### Production Activity

22. Plant 29 is a known producer of the ASH-21 and ASH-28 engines used in the HOUND- and HORSE-type helicopters<sup>1</sup> and may possibly be involved in the production of rocket engines. This possibility is strengthened by the proximity of the Omsk Rocket Engine Test Facility Gornaya Bitiya [ ] and the identification of a helicopter rotor test stand at that installation in [ ]

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23. It is possible that the combined facilities of Plant 29, Omsk Airframe Plant 166, and Omsk Rocket Engine Test Facility Gornaya Bitiya could be utilized to produce an entire liquid fueled rocket.

### Essential Services

24. Rail service for Plant 29 is provided by a branch line of the Trans-Siberian Railroad. The branch line forks immediately outside the southeast corner of the plant to form three main spurs. Two of the spur lines serve the POL facilities located along the southern perimeter of the plant area. The third spur serves the eastern plant area. Sidings from this spur serve the transshipment building, the POL storage facility, and the support complex in the southeast corner of the plant area.

25. The intricate pattern of roads and railroads within the area facilitates the movement of materials, products, and personnel of Plant 29.

26. The highway system in the immediate vicinity of Plant 29 is one of improved, all-weather, serviceable roads. The roads within the plant area are improved, serviceable roads and are connected to the highway system of the area.

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27. Omsk Airfield East [ ] could supply the necessary air services for Plant 29. Port facilities on the west bank of the Irtysh River, approximately 6.0 kilometers (3.3 nautical miles) southwest of the plant, are connected to Plant 29 by road and rail.

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28. Electrical power for Plant 29 is supplied from a local source; Omsk Thermal Power Plant TETS 2 [ ] located approximately 4.0 kilometers (2.2 nautical miles) southwest of the plant area, could be the supplier.

### Security

29. The plant is encompassed by a wall. There are two major personnel entrances in the west wall, both of which are probably controlled by a security force. Major vehicle entrances are identified in the west wall and the south wall. A probable vehicle entrance in the north wall is located in the area of plant expansion and is probably a temporary access. The only rail entrance to the plant is located in the south wall.

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MAPS OR CHARTS

SAC. US Air Target Chart, Series 200, Sheet 0163-10, scale 1:200,000

## DOCUMENT

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## REQUIREMENT

COMIREX J04  
NPIC/IEG/SD/NIB Project 221350

is the latest and best large-scale coverage of the installation to date.

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